

Preliminary Amendment  
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**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (currently amended) An antenna system comprising:

- (a) a Luneberg Lens having a spherically shaped outer surface and a spherically shaped focal surface spaced from its outer surface;
- (b) a plurality of patch antenna elements disposed along the focal surface of the ~~Lungeberg~~ Luneberg Lens; and
- (c) a power combiner for combining signals received by said plurality of patch antenna elements.

2. (original) The antenna system of claim 1 wherein each patch antenna element of said plurality of patch antenna elements has at least one feed point for receiving signals, the signals at said feed points being selectively routed to said power combiner based upon certain predetermined signal criteria.

3. (original) The antenna system of claim 1 wherein each patch antenna element of said plurality of patch antenna elements has at least two feed points for receiving circularly polarized signals, the signals received at said feed points being selectively routed to said power combiner based upon certain predetermined signal criteria.

4. (original) The antenna system of claim 3 wherein the signals routed from the feed points of each patch antenna element are routed via a first switch and one of a plurality of filters having different band pass characteristics.

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5. (original) The antenna system of claim 4 wherein the signals routed from the feed points of each patch antenna element are routed via a second switch, the second switch routing the signals to either a matched load or said power combiner.
6. (original) The antenna system of claim 5 wherein the second switch is controlled in based upon said certain predetermined signal criteria.
7. (original) The antenna system of claim 6 wherein the predetermined signal criteria is a signal level of the signal entering the entering the second switch and wherein the second switch is switched to couple the signals entering the second switch to said matched load when the signal level exceeds a predetermined level.
8. (original) The antenna system of claim 7 wherein the signals from the at least two feed points associated with a single patch antenna element are routed via a coupler before being passed to said second switch.
9. (original) The antenna system of claim 3 wherein the signals routed from the feed points are routed via a switch for routing the signals to either a matched load or said power combiner.
10. (original) The antenna system of claim 9 wherein the second switch is controlled in based upon said certain predetermined signal criteria.
11. (original) The antenna system of claim 10 wherein the predetermined signal criteria is a signal level of the signal entering the entering the second switch and wherein the second switch is switched to couple the signals entering the second switch to said matched load when the signal level exceeds a predetermined level.

(Claims 12-29 are canceled)